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Quantum interference of mössbauer gamma-radiative transitions in magnetic materials

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Abstract

A method is developed for calculating the resonance fluorescence spectrum of coherent radiation with a finite linewidth from a system whose energy levels are coupled through a strong field. In this case, the shape of the spectrum is essentially affected by quantum interference. The results obtained give impetus to investigations into quantum interference of Mössbauer gamma-radiative transitions in magnetic materials under conditions of induced coherent magnetization dynamics. © 2002 MAIK "Nauka/Interperiodica".

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